

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P597287

Luminaire Tested: **PMM-SA2A-722-U-T4W-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-722-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4405 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

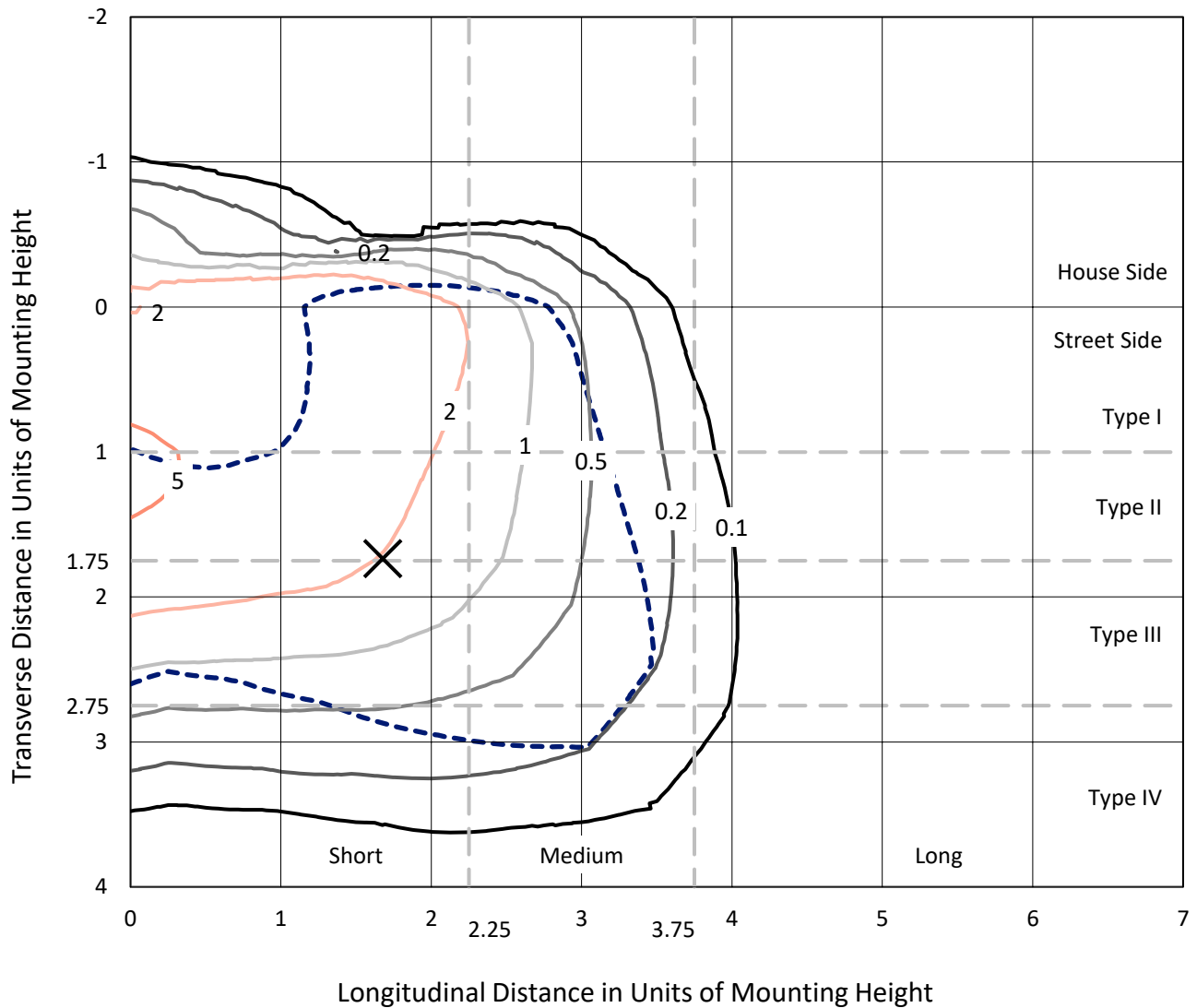
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

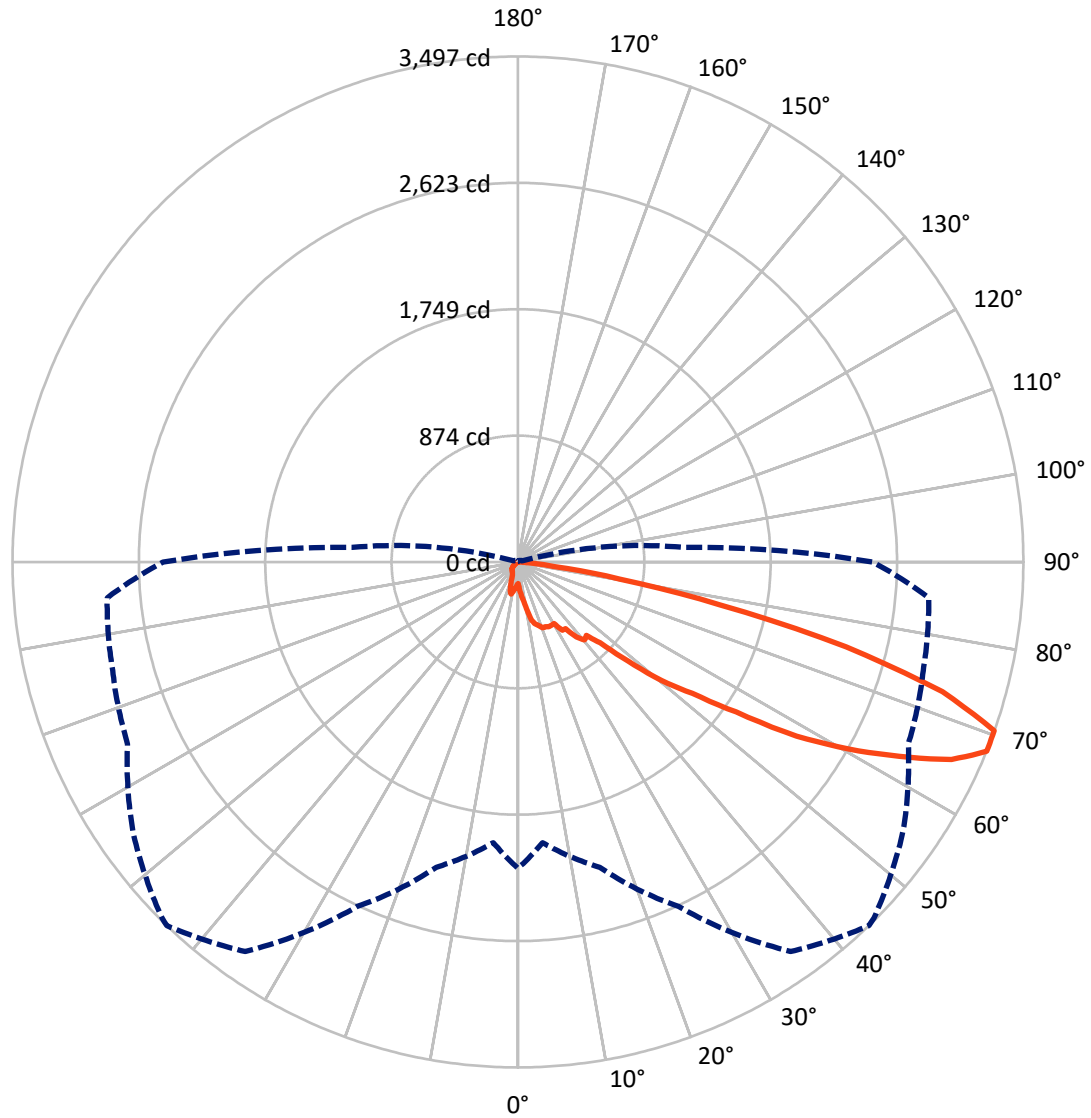
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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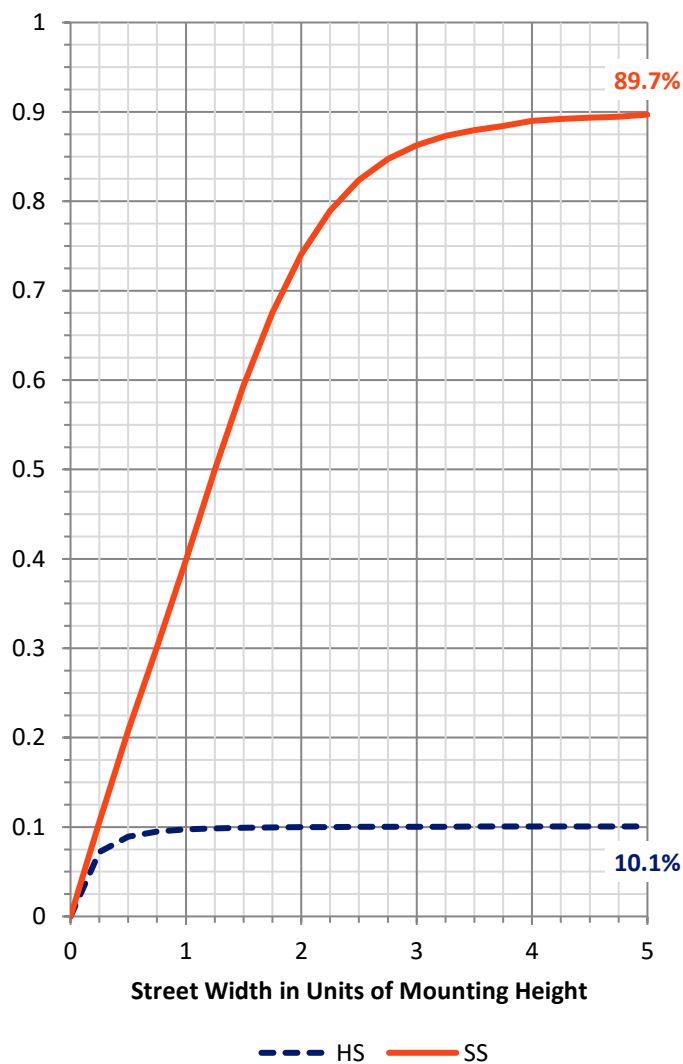
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 447.5 | 0.0 | 447.5 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 3957.5 | 0.0 | 3957.5 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 4405.0 | 0.0 | 4405.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.0 | 0.5 |
| 10°-20° | 92.1 | 2.1 |
| 20°-30° | 163.1 | 3.7 |
| 30°-40° | 265.2 | 6.0 |
| 40°-50° | 530.6 | 12.0 |
| 50°-60° | 1088.6 | 24.7 |
| 60°-70° | 1495.4 | 33.9 |
| 70°-80° | 702.9 | 16.0 |
| 80°-90° | 45.0 | 1.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4405.0 | 100.0 |
| 0°-180° | 4405.0 | 100.0 |

Coefficient of Utilization

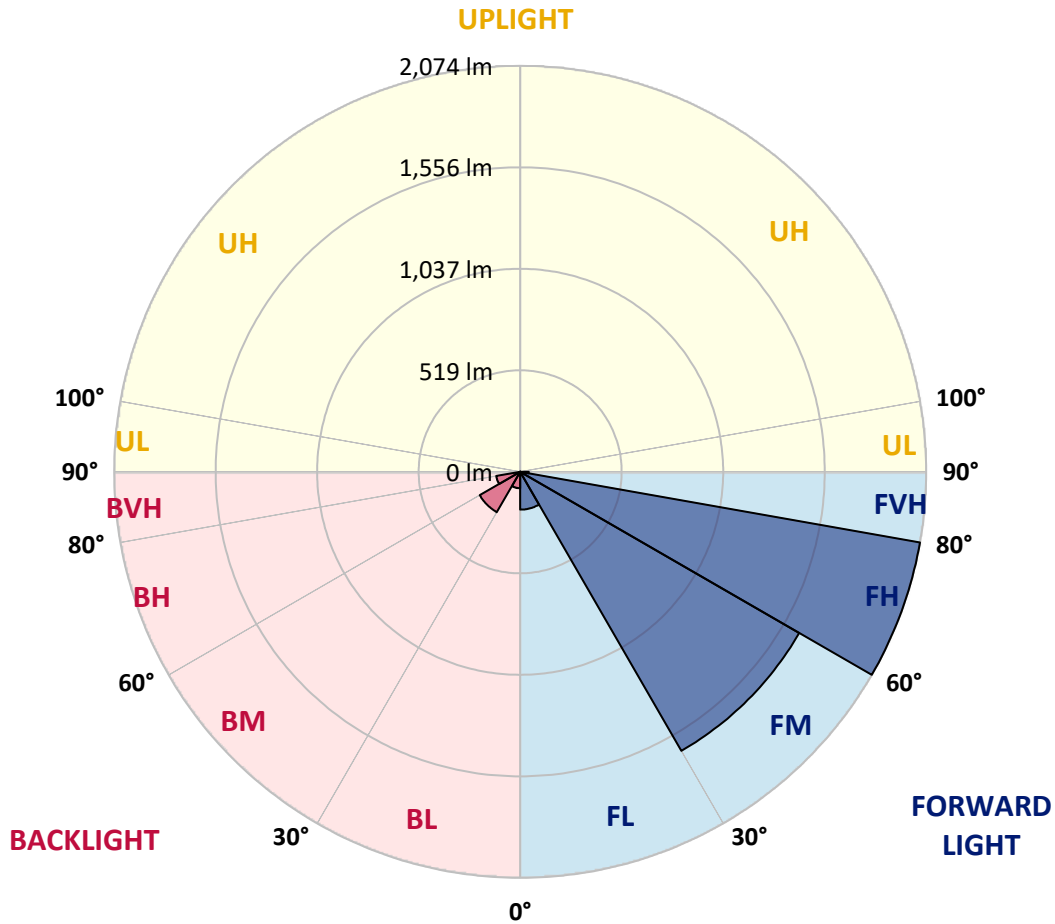


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 193.2 | 4.4 | | | |
| FM (30°-60°) | 1646.1 | 37.4 | | | |
| FH (60°-80°) | 2074.1 | 47.1 | | | G2/5000 |
| FVH (80°-90°) | 44.1 | 1.0 | | | G1/100 |
| BL (0°-30°) | 84.0 | 1.9 | B0/110 | | |
| BM (30°-60°) | 238.4 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 124.2 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 |
| 2.5° | 188.7 | 182.7 | 173.9 | 175.9 | 176.8 | 179.5 | 179.7 | 176.3 | 166.6 | 164.0 | 175.9 |
| 5° | 264.5 | 249.7 | 247.0 | 241.4 | 230.3 | 224.2 | 222.7 | 228.8 | 221.0 | 218.6 | 221.8 |
| 7.5° | 337.9 | 325.2 | 311.4 | 303.9 | 280.6 | 266.2 | 265.5 | 267.9 | 269.4 | 260.9 | 265.2 |
| 10° | 386.7 | 372.9 | 369.9 | 352.2 | 332.0 | 328.6 | 327.2 | 318.0 | 310.4 | 304.1 | 283.0 |
| 12.5° | 430.9 | 430.7 | 436.0 | 410.5 | 407.3 | 410.7 | 409.5 | 376.5 | 369.0 | 342.5 | 336.4 |
| 15° | 489.7 | 504.3 | 481.2 | 459.8 | 432.6 | 444.3 | 441.1 | 420.0 | 414.9 | 396.9 | 370.9 |
| 17.5° | 550.7 | 554.5 | 515.9 | 483.1 | 476.1 | 460.8 | 463.9 | 456.4 | 430.7 | 445.0 | 419.2 |
| 20° | 552.1 | 560.6 | 519.3 | 465.2 | 486.8 | 486.0 | 486.3 | 479.0 | 445.0 | 478.5 | 455.0 |
| 22.5° | 572.5 | 551.6 | 513.3 | 478.8 | 482.6 | 486.3 | 490.2 | 481.2 | 473.9 | 482.2 | 486.5 |
| 25° | 564.3 | 556.0 | 519.1 | 496.2 | 492.6 | 495.5 | 496.5 | 507.9 | 503.3 | 523.2 | 512.3 |
| 27.5° | 585.6 | 573.7 | 507.7 | 511.8 | 498.9 | 495.5 | 489.7 | 527.8 | 541.4 | 525.6 | 554.8 |
| 30° | 622.3 | 620.6 | 527.3 | 533.4 | 523.5 | 493.6 | 509.1 | 558.9 | 575.9 | 566.2 | 601.7 |
| 32.5° | 679.6 | 685.5 | 584.9 | 545.6 | 550.7 | 564.0 | 558.2 | 558.9 | 601.9 | 623.5 | 651.7 |
| 35° | 761.0 | 757.9 | 641.0 | 591.7 | 565.0 | 567.2 | 575.4 | 615.0 | 670.7 | 669.2 | 699.1 |
| 37.5° | 920.8 | 886.3 | 740.4 | 638.8 | 646.8 | 657.8 | 651.7 | 704.9 | 710.2 | 712.2 | 783.6 |
| 40° | 1156.5 | 1110.5 | 897.0 | 738.2 | 660.9 | 709.3 | 706.4 | 719.5 | 755.2 | 768.5 | 872.7 |
| 42.5° | 1466.9 | 1405.2 | 1172.7 | 920.8 | 728.9 | 695.7 | 713.6 | 738.4 | 858.4 | 896.6 | 1010.7 |
| 45° | 1809.9 | 1685.0 | 1447.7 | 1181.2 | 899.5 | 796.2 | 809.8 | 856.0 | 1022.4 | 1085.5 | 1211.6 |
| 47.5° | 2032.1 | 1922.3 | 1720.0 | 1412.0 | 1077.3 | 1023.1 | 1024.3 | 1034.3 | 1215.0 | 1332.1 | 1501.1 |
| 50° | 2225.2 | 2108.4 | 1920.6 | 1653.2 | 1391.8 | 1289.3 | 1266.0 | 1220.1 | 1460.3 | 1620.4 | 1807.9 |
| 52.5° | 2497.8 | 2361.3 | 2121.3 | 1936.2 | 1750.6 | 1509.2 | 1500.9 | 1516.4 | 1749.6 | 1918.0 | 2122.5 |
| 55° | 2743.6 | 2577.7 | 2348.6 | 2232.0 | 2159.6 | 1832.2 | 1839.3 | 1865.2 | 2121.0 | 2210.2 | 2402.3 |
| 57.5° | 2852.2 | 2672.4 | 2554.6 | 2502.1 | 2463.5 | 2273.6 | 2249.8 | 2234.2 | 2414.0 | 2448.0 | 2695.5 |
| 60° | 2923.3 | 2752.3 | 2698.9 | 2711.0 | 2828.1 | 2626.5 | 2604.9 | 2514.5 | 2656.4 | 2684.3 | 2958.3 |
| 62.5° | 2878.4 | 2722.4 | 2733.9 | 2835.2 | 3095.1 | 2962.4 | 2900.0 | 2748.9 | 2854.6 | 2877.2 | 3147.0 |
| 65° | 2595.4 | 2432.9 | 2579.6 | 2824.7 | 3298.6 | 3295.5 | 3266.5 | 2965.3 | 2964.4 | 2993.3 | 3161.6 |
| 67.5° | 2120.0 | 1949.5 | 2186.8 | 2628.9 | 3290.1 | 3497.3 | 3483.7 | 3252.5 | 2980.2 | 2902.9 | 2853.1 |
| 70° | 1473.9 | 1326.0 | 1595.1 | 2171.1 | 2996.9 | 3495.8 | 3474.0 | 3445.3 | 2855.3 | 2498.7 | 2212.1 |
| 72.5° | 765.9 | 684.5 | 935.2 | 1496.0 | 2388.9 | 3071.5 | 3143.6 | 3096.5 | 2438.0 | 1815.4 | 1302.7 |
| 75° | 260.1 | 233.4 | 385.7 | 794.0 | 1588.1 | 2345.5 | 2430.0 | 2382.1 | 1655.9 | 974.0 | 515.2 |
| 77.5° | 100.8 | 93.8 | 138.2 | 322.3 | 796.7 | 1429.2 | 1521.1 | 1472.2 | 888.0 | 356.8 | 121.2 |
| 80° | 57.3 | 55.4 | 76.3 | 145.3 | 351.2 | 711.0 | 775.6 | 703.4 | 320.1 | 120.2 | 31.6 |
| 82.5° | 24.3 | 25.0 | 42.5 | 78.5 | 176.6 | 250.9 | 279.8 | 255.3 | 134.1 | 82.3 | 11.7 |
| 85° | 5.3 | 6.6 | 20.2 | 43.7 | 74.1 | 71.7 | 75.1 | 83.3 | 82.3 | 60.5 | 5.1 |
| 87.5° | 0.0 | 0.0 | 6.3 | 11.9 | 17.7 | 11.7 | 9.2 | 16.3 | 25.3 | 24.3 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 | 148.4 |
| 2.5° | 178.0 | 175.6 | 160.3 | 159.3 | 160.3 | 157.6 | 157.4 | 151.8 | 152.3 | 164.9 | 165.9 |
| 5° | 221.8 | 209.6 | 196.5 | 192.4 | 188.5 | 179.7 | 184.6 | 184.6 | 184.6 | 192.6 | 195.1 |
| 7.5° | 261.4 | 245.1 | 226.6 | 211.1 | 196.0 | 185.1 | 192.6 | 198.0 | 201.1 | 211.6 | 216.4 |
| 10° | 279.3 | 263.3 | 246.8 | 224.7 | 213.0 | 208.9 | 200.2 | 195.5 | 201.1 | 198.9 | 201.6 |
| 12.5° | 317.7 | 303.1 | 274.7 | 251.9 | 243.1 | 229.1 | 203.3 | 185.3 | 173.4 | 171.5 | 171.0 |
| 15° | 355.1 | 346.1 | 308.0 | 277.4 | 247.0 | 214.5 | 170.5 | 146.7 | 134.1 | 131.9 | 132.1 |
| 17.5° | 402.5 | 389.6 | 333.5 | 289.5 | 238.0 | 179.5 | 131.7 | 111.2 | 110.3 | 115.6 | 116.1 |
| 20° | 434.1 | 412.9 | 346.4 | 279.6 | 208.4 | 135.8 | 103.0 | 98.1 | 105.9 | 115.6 | 114.6 |
| 22.5° | 464.2 | 441.4 | 363.4 | 270.8 | 161.5 | 103.0 | 94.7 | 95.2 | 101.8 | 112.2 | 114.9 |
| 25° | 484.1 | 475.8 | 384.3 | 250.4 | 123.2 | 89.1 | 90.6 | 94.2 | 99.8 | 109.8 | 109.8 |
| 27.5° | 544.1 | 505.5 | 381.8 | 210.8 | 94.7 | 83.1 | 86.5 | 91.1 | 94.0 | 105.9 | 107.1 |
| 30° | 580.5 | 567.9 | 394.5 | 170.5 | 83.1 | 75.3 | 81.9 | 86.0 | 87.9 | 101.5 | 102.0 |
| 32.5° | 625.2 | 597.3 | 409.8 | 125.8 | 77.2 | 74.8 | 73.4 | 76.5 | 82.1 | 94.0 | 94.7 |
| 35° | 679.6 | 671.4 | 387.9 | 98.9 | 75.3 | 70.0 | 67.0 | 68.7 | 72.4 | 80.4 | 82.1 |
| 37.5° | 790.6 | 741.6 | 374.8 | 84.8 | 75.3 | 68.3 | 65.1 | 60.7 | 61.2 | 66.8 | 70.0 |
| 40° | 884.2 | 869.1 | 338.1 | 82.3 | 71.9 | 65.8 | 58.1 | 52.7 | 49.1 | 50.8 | 52.0 |
| 42.5° | 1055.9 | 986.2 | 290.8 | 81.1 | 68.7 | 59.5 | 49.3 | 43.7 | 38.1 | 38.6 | 40.6 |
| 45° | 1264.3 | 1113.9 | 248.5 | 79.9 | 66.6 | 53.2 | 41.5 | 35.0 | 29.1 | 29.4 | 31.3 |
| 47.5° | 1542.7 | 1300.3 | 197.2 | 76.3 | 62.7 | 47.4 | 33.5 | 26.7 | 23.3 | 24.0 | 25.7 |
| 50° | 1858.9 | 1463.7 | 155.9 | 70.7 | 58.1 | 41.8 | 27.2 | 21.6 | 20.4 | 21.1 | 23.1 |
| 52.5° | 2141.4 | 1584.2 | 128.7 | 65.6 | 51.5 | 34.0 | 22.8 | 19.2 | 18.7 | 19.2 | 20.6 |
| 55° | 2392.6 | 1654.2 | 107.6 | 59.8 | 44.2 | 27.4 | 20.6 | 17.7 | 17.5 | 17.2 | 18.2 |
| 57.5° | 2628.2 | 1674.3 | 84.0 | 50.5 | 35.9 | 23.8 | 19.2 | 16.5 | 16.0 | 15.3 | 16.0 |
| 60° | 2799.9 | 1639.8 | 61.7 | 40.6 | 29.4 | 21.6 | 18.0 | 14.8 | 14.1 | 12.9 | 13.4 |
| 62.5° | 2882.8 | 1545.3 | 46.6 | 32.5 | 25.0 | 19.7 | 16.0 | 12.9 | 11.9 | 10.4 | 10.7 |
| 65° | 2804.1 | 1389.6 | 36.7 | 27.4 | 21.4 | 16.5 | 13.6 | 10.9 | 9.7 | 8.3 | 8.3 |
| 67.5° | 2455.5 | 1152.8 | 31.1 | 23.8 | 18.0 | 14.1 | 11.2 | 10.0 | 8.0 | 6.8 | 6.6 |
| 70° | 1802.3 | 829.3 | 26.7 | 20.9 | 15.5 | 12.1 | 9.5 | 9.0 | 7.8 | 6.6 | 6.1 |
| 72.5° | 1017.3 | 469.3 | 22.8 | 18.5 | 13.1 | 10.2 | 8.0 | 8.3 | 7.5 | 6.1 | 5.6 |
| 75° | 388.2 | 158.1 | 18.9 | 15.3 | 10.7 | 7.8 | 6.8 | 6.8 | 6.8 | 5.1 | 4.4 |
| 77.5° | 96.2 | 40.3 | 15.1 | 12.4 | 8.5 | 5.1 | 5.6 | 5.8 | 5.8 | 4.4 | 3.2 |
| 80° | 26.5 | 13.6 | 9.0 | 9.0 | 6.1 | 2.9 | 3.9 | 3.9 | 3.2 | 1.5 | 0.0 |
| 82.5° | 9.7 | 5.1 | 3.2 | 3.9 | 2.7 | 1.0 | 1.5 | 1.0 | 0.7 | 0.0 | 0.0 |
| 85° | 4.1 | 2.7 | 1.9 | 2.2 | 1.2 | 0.0 | 0.2 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 1.2 | 1.0 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)